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INTERNATIONAL PRELIMINARY EXAMINATION REPORTIPO

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
176/61331 International application No.	International filing date (day/mor	ay/month/year) Priority date (day/month/year)		
PCT/US03/21785	7/JS03/21785 14 July 2003 (14.07.2003) 12 July 2002 (12.07.2002)		12 July 2002 (12.07.2002)	
International Patent Classification (IPC)	or national classification and IPC		·	
IPC(7): A61K 31/196, 31/197, 31/198 a	nd US Cl.: 514/561, 562, 567		·	
Applicant				
UNIVERSITY OF ROCHESTER				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. 				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of	a total of U sheets.			
3. This report contains indic	ations relating to the following	items:		
I Basis of the rej	port			
II Priority				
III Non-establishn	nent of report with regard to no	velty, inventive	step and industrial applicability	
IV Lack of unity of	of invention			
V Reasoned state	ment under Article 35(2) with rations and explanations suppo	egard to novelt	y, inventive step or industrial ment	
	rations on the international appli			
Date of submission of the demand	Date	of completion	of this report	
22 January 2004 (22.01.2004)		pril 2004 (13.04	.2004)	
Name and mailing address of the IPEA/US		orized officer	Lukaers 1	
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	To have	PifCe (llis G. Spivack	Brulger &	
P.O. Box 1450 Alexandria, Virginia 223 13-1450		phone No. 703-	1/	
Facsimile No. (703) 305-3230				

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INTERNATIONAL B	MINARY EXAMI	THE ROTTAIN
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Internat	ional application No.
PCT	21785

I.	asis of the report	
1.	ith regard to the elements of the international application:*	
	the international application as originally filed.	
	the description:	
	pages 1-14 as originally filed	
	pages NONE , filed with the demand	
	pages NONE , filed with the letter of	
	the claims:	
	pages 15-19 , as originally filed	
	pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand	
	pages NONE , filed with the letter of	
	the drawings:	
	pages NONE , as originally filed	
	pages NONE , filed with the demand	
	pages NONE , filed with the letter of	
	the sequence listing part of the description:	
	pages NONE , as originally filed	
	pages NONE , filed with the demand	ı
	pages NONE , filed with the letter of	ļ
2.	ith regard to the language, all the elements marked above were available or furnished to this Authority in the	
	reguage in which the international application was filed, unless otherwise indicated under this item.	
	nese elements were available or furnished to this Authority in the following language which is:	
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).	
	the language of publication of the international application (under Rule 48.3(b)).	-
	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).	
3.	ith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the	
	emational preliminary examination was carried out on the basis of the sequence listing: contained in the international application in printed form.	
	filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.	
	7	
	furnished subsequently to this Authority in computer readable form.	
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.	
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.	ıg
4.	7	
	the description, pages none	
	the claims, Nos. none	
_	the drawings, sheets/fig none	
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	
ınıs	lacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to it port as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.	2
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International PCT/U	application No. 1785

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. STATEMENT YES Novelty (N) Claims NONE NO Claims 1-48 Inventive Step (IS) Claims NONE YES Claims 1-48 NO YES Industrial Applicability (IA) Claims 1-48 Claims NONE NO

2. CITATIONS AND EXPLANATIONS

Claims 1-48 fail to meet the criteria of PCT Articles 33(2) and 33(3) because the references cited as prior art teach the claimed subject matter. Claims 1-48 lack an inventive step over the prior art. The open language of the present claims does not preclude the addition of any number of additional active agents. The prior art teaches methods of treating various conditions characterized by symptoms that can be alleviated by interfering with the activity of endogenous ligands on the alpha2delta subunit of a voltage-gated calcium channel. Hageman et al., WO 01/85178, and Richardson, WO 96/21437, teach methods for treating such conditions as fatigue, neurodegenerative diseases, tremor disorders, pain or gut disorders comprising administering a composition comprising isoleucine. Gollobin, U.S. Patent 5,789,443, teaches methods for treating hot flashes or symptoms of hormonal variation comprising administering isoleucine. Henry et al., WO 01/68069, teaches methods for treating cough or asthma comprising administering methionine. Bartus et al., US 2002/0058009, teaches the administration of treating cough or asthma comprising administering (abstract), teaches the administration of isoleucine to treat migraine, anxiety, psychosis, seizures, attention deficit hyperactivity disorder and a neurodegenerative disorder. Manner et al., Pharmacology, Biochemistry and Behavior (abstract), teaches the administration of isoleucine to treat fatigue. Sonaka et al., EP 689835 (abstract), teaches the administration of isoleucine or methionine to treat inflammatory bowel disease.

Claims 1-48 meet the criteria of PCT Article 33(4) as they are directed to methods of treating a patient for a condition characterized by symptoms that can be alleviated by interfering with the activity of endogenous ligands on the alpha2delta subunit of a voltage-gated calcium channel and compositions therefor.